

ITZ  
3753

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

INVENTOR: W. Helms et al. ) EXAMINER: T. Walberg  
SERIAL NO.: 10/520,703 ) ART UNIT: 3753  
FILING DATE: October 31, 2003 ) DATE: January 17, 2006  
FOR: HEAT EXCHANGER )

**THIRD-PARTY SUBMISSION UNDER 37 CFR § 1.99**  
**IN PUBLISHED PATENT APPLICATION SERIAL NO. 10/520,703**

Mail Stop  
Commissioner of Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

**BEST AVAILABLE COPY**

Dear Sir:

The foregoing is a third party prior art submission under 37 CFR § 1.99 in connection with pending patent application serial no. 10/520,703, entitled HEAT EXCHANGER, which was published on November 17, 2005.

It is believed that radiator nos. 43 2020 GM (p.205), 43 2373 FORD (p.218), 43 2192 FORD (p.210), 43 3891 FORD (p.258), 43 2183 FORD (p.209), in the 2001 Ready Rad radiators/Ready Aire heater cores, Catalog No. 401, published 2001 by Go/Dan Industries, are relevant to patent application serial no. 10/520,703. Copies of the relevant pages of this catalog are enclosed, along with copies of the engineering drawings showing the construction of the heat exchanger headers incorporated into the radiators depicted in the catalog and sold in 2001. As such, it is requested that the United States Patent & Trademark Office enter this third party submission into the above patent application file,

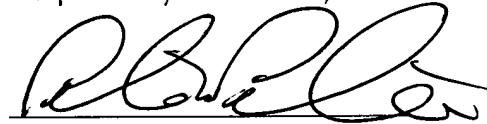
Approved  
01/20/06  
JH

and the Examiner consider the enclosed documents when determining patentability of the claims of pending published patent application serial no. 10/520,703.

This third party prior art submission is being timely submitted within the two (2) month deadline, i.e., January 17, 2006, from the publication date of November 17, 2005, is accompanied by the appropriate fee of \$180.00, and has been served on applicant's attorney/agent, FOLEY AND LARDNER, located at Suite 500, 3000 K Street NW, Washington, D.C. 20007, in accordance with 37 C.F.R. 1.248.

The Commissioner is hereby authorized to credit or debit our deposit account number 04-0566 for any over or under payments.

Respectfully submitted,




Peter Peterson  
Reg. No. 31,867

**DeLIO & PETERSON, LLC**  
121 Whitney Avenue  
New Haven, CT 06510-1241  
(203) 787-0595  
pro1531\_3<sup>rd</sup>\_pty\_sub

#### CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service on the date indicated below as first class mail in an envelope addressed to: Mail Stop \_\_\_\_\_, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450

Name: Barbara Browne Date: January 17, 2006 Signature: 

**CERTIFICATE OF SERVICE**

This hereby certifies that the foregoing THIRD PARTY SUBMISSION UNDER 37 CFR § 1.99 IN PUBLISHED PATENT APPLICATION SERIAL NO. 10/520,703 was mailed this 17<sup>th</sup> day of January 2006, in a securely sealed envelope, by first class mail, postage prepaid to:

FOLEY AND LARDNER  
Suite 500  
3000 K Street NW  
Washington, D.C. 20007

By: \_\_\_\_\_

  
Peter W. Peterson

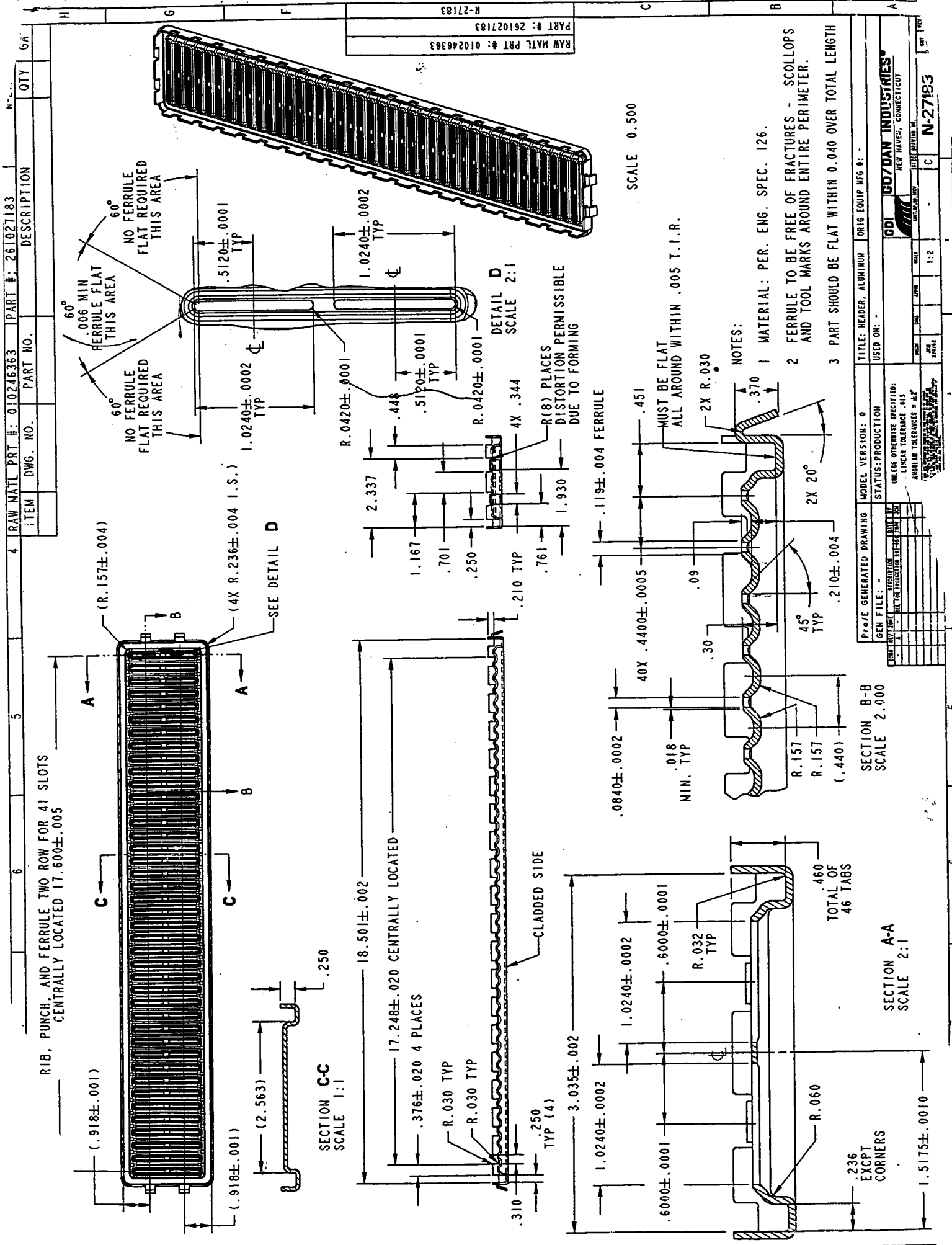


**ENGINEERING DRAWING**

**N - 27183**

**HEADER Used in**

**RADIATOR 43 2183 FORD**



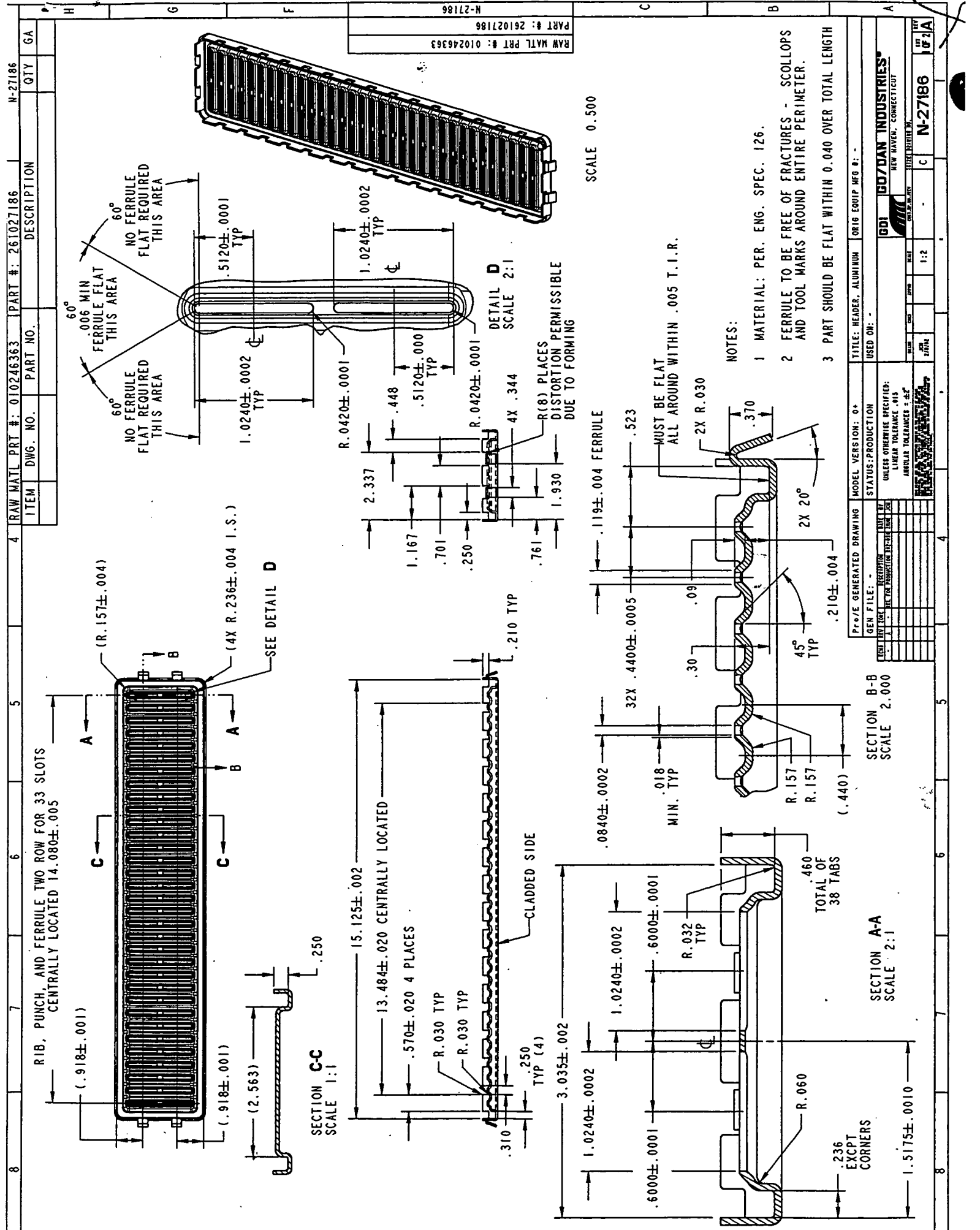


# **ENGINEERING DRAWING**

**N - 27186**

**HEADER Used in**

**RADIATOR 43 3891 FORD**



**ENGINEERING DRAWING**

**N - 27187**

**HEADER Used in**

**RADIATOR 43 2192 FORD**





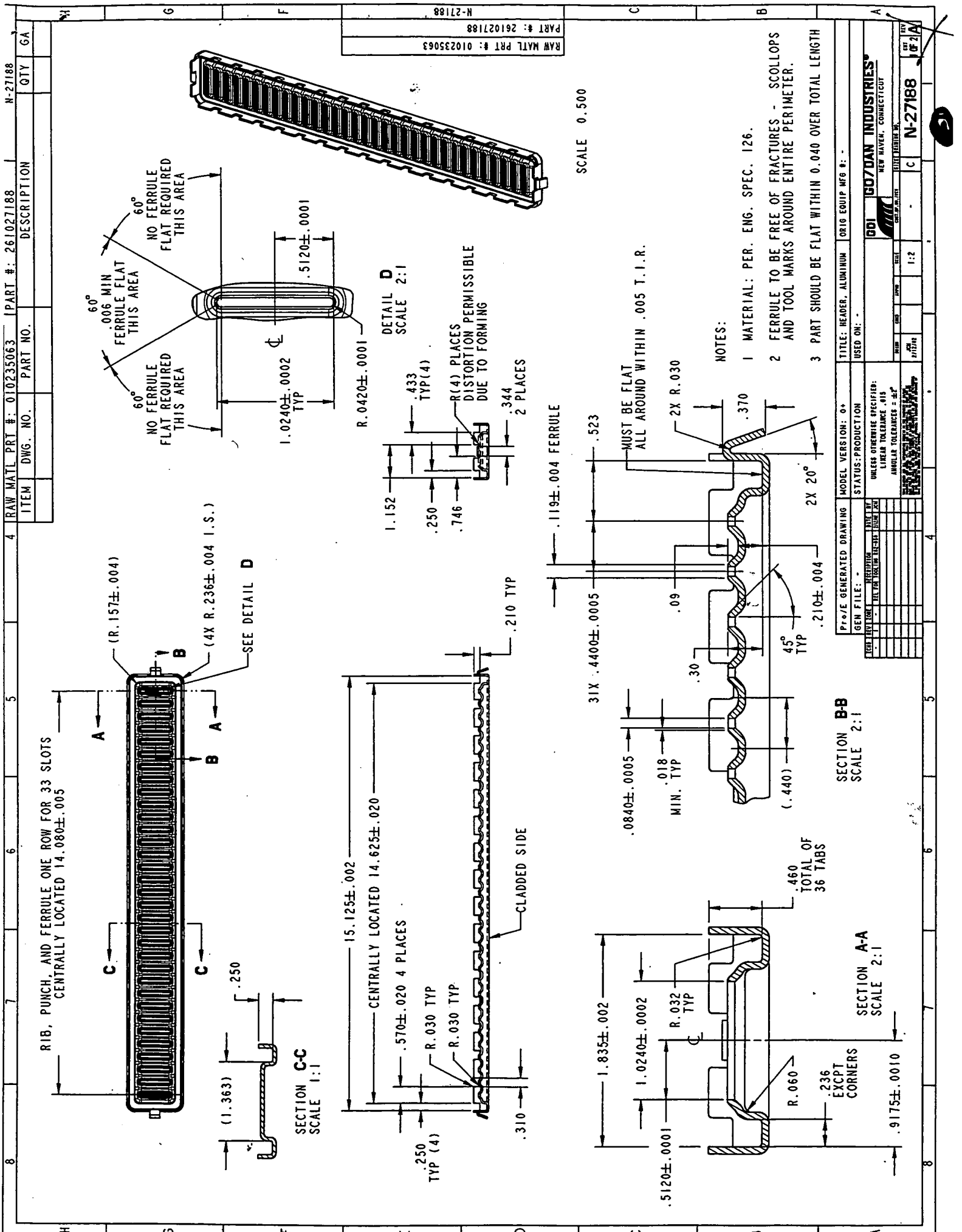


# **ENGINEERING DRAWING**

**N - 27188**

**HEADER Used in**

**RADIATOR 43 2192 FORD**



ITEM	DWG. NO.	PART NO.	DESCRIPTION	QTY	GA
4	RAW MATL PRT # 010235063	PART # 261027188			
5					
6					
7					
8					

RIB, PUNCH, AND FERRULE ONE ROW FOR 33 SLOTS  
CENTRALLY LOCATED 14.080±.005

SECTION C-C  
SCALE 1:1

SECTION A-A  
SCALE 2:1

SECTION B-B  
SCALE 2:1

DETAIL D  
SCALE 2:1

CLADED SIDE

NO FERRULE  
FLAT REQUIRED  
THIS AREA

60°

60° MIN  
FERRULE FLAT  
THIS AREA

60°

NO FERRULE  
FLAT REQUIRED  
THIS AREA

1.0240±.0002  
TYP

5120±.0001

R.0420±.0001

1.152

.250

.746

.433  
TYP (4)

R(4) PLACES  
DISTORTION PERMISSIBLE  
DUE TO FORMING

.344  
2 PLACES

.210 TYP

15.125±.002

CENTRALLY LOCATED 14.625±.020

.570±.020 4 PLACES

.250  
TYP (4)

R.030 TYP

R.030 TYP

.310

31X .4400±.0005

.119±.004 FERRULE

.523

MUST BE FLAT  
ALL AROUND WITHIN .005 T.I.R.

.0840±.0005

.018  
MIN. TYP

.30

.09

2X R.030

.370

2X 20°

.210±.004

45°  
TYP

(.440)

.460  
TOTAL OF  
36 TABS

R.060

.236  
EXCPT  
CORNERS

.9175±.0010

1.835±.002

1.0240±.0002

R.032  
TYP

5120±.0001

SCALE 0.500

NOTES:

1 MATERIAL: PER. ENG. SPEC. 126.

2 FERRULE TO BE FREE OF FRACTURES - SCOLLOPS  
AND TOOL MARKS AROUND ENTIRE PERIMETER.

3 PART SHOULD BE FLAT WITHIN 0.040 OVER TOTAL LENGTH

RAW MATL PRT # 010235063

PART # 261027188

N-27188

GO/DAN INDUSTRIES®  
NEW HAVEN, CONNECTICUT

1:2

C

N-27188

27188

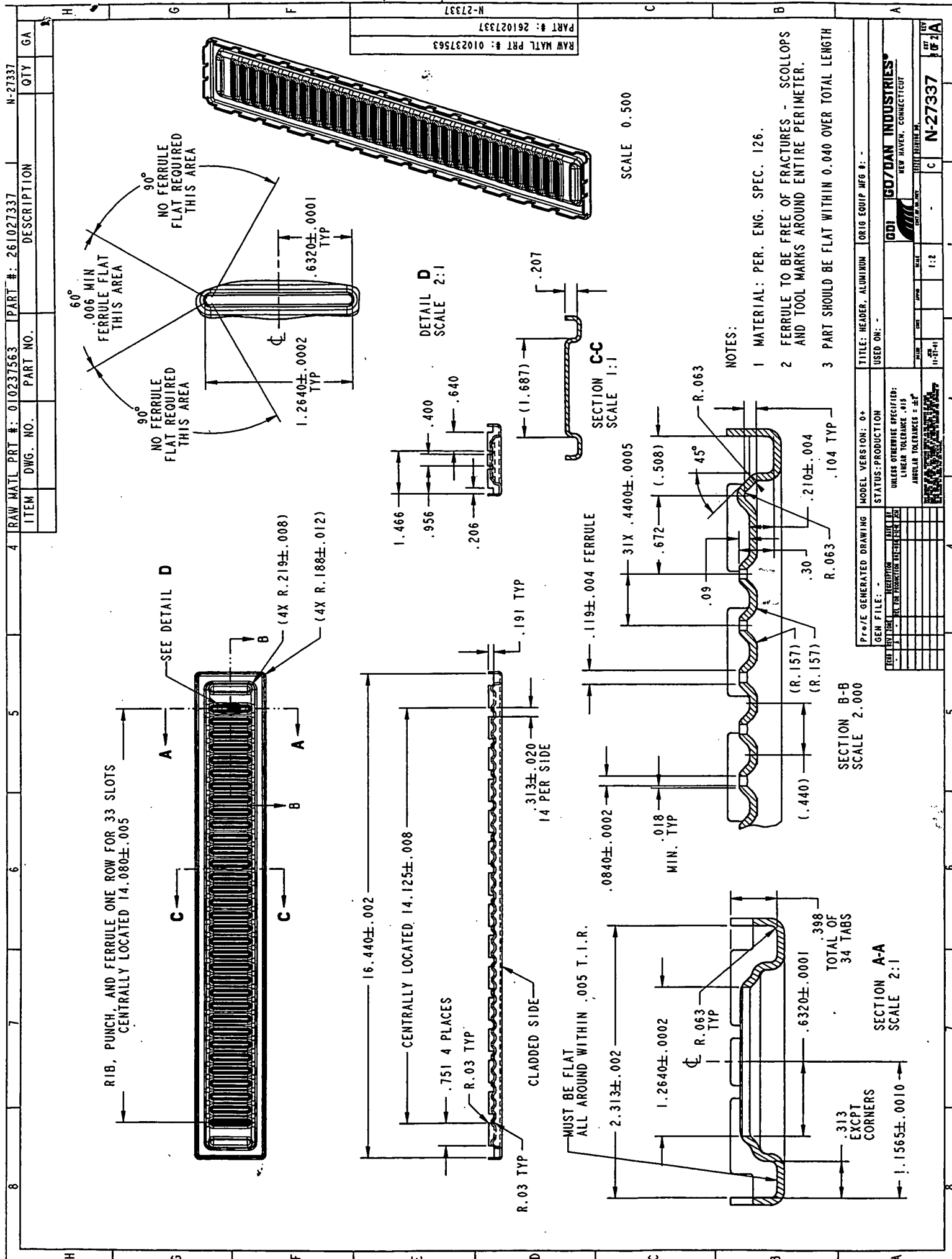


# **ENGINEERING DRAWING**

**N - 27337**

**HEADER Used in**

**RADIATOR 43 2020 GM**



90

**ENGINEERING DRAWING**

**N - 27348**

**HEADER Used in**

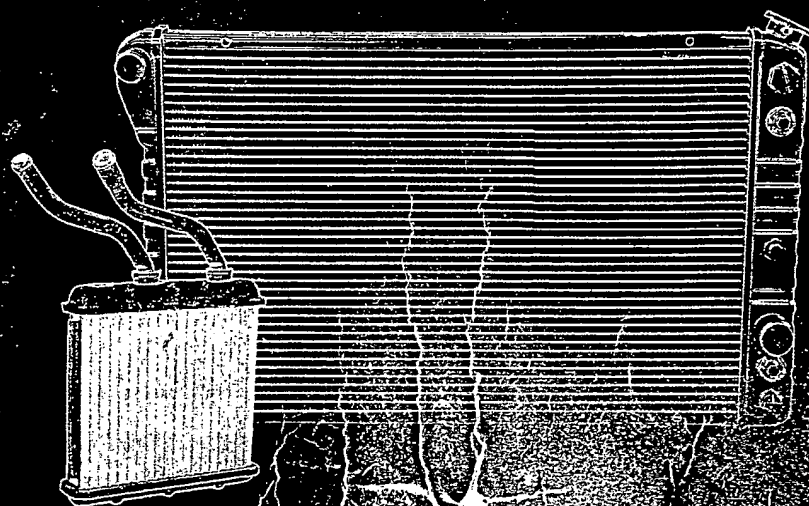
**RADIATOR 43 2373 FORD**



**Ready•Rad<sup>®</sup>**  
radiators

**Ready•Aire<sup>®</sup>**  
heater cores

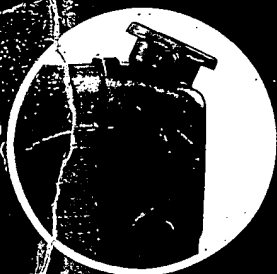
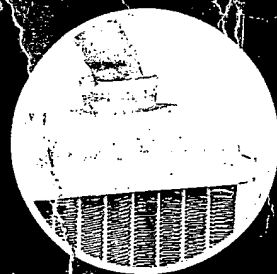
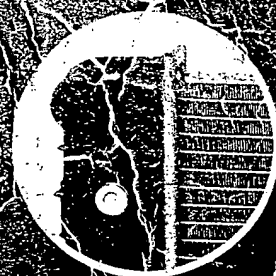
1002



aluminum

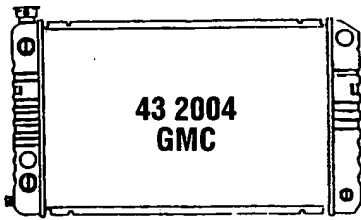
heaters

radiators



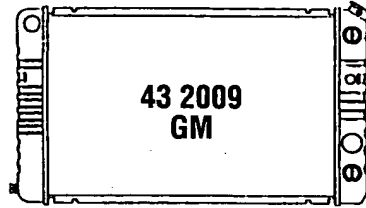


# RADIATOR ILLUSTRATIONS & SPECIFICATIONS



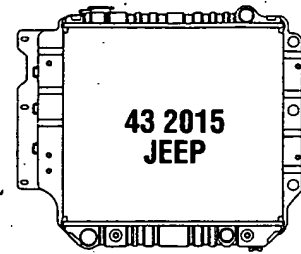
**43 2004  
GMC**

Core Size: 23% x 15% x 1 1 Row  
 Tank Sizes: Inlet 2% x 16%  
 Outlet 2% x 16%  
 Hose Fittings: Inlet 1% Dia. Top Right  
 Outlet 1% Dia. Bot. Left  
 Type Mount: C Oil Cooler 11%  
 Eng. & Trans.  
 Construction: Plastic tanks/Aluminum core



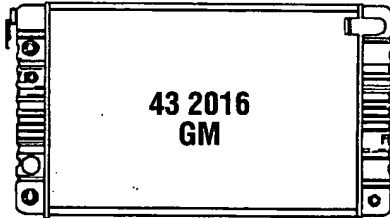
**43 2009  
GM**

Core Size: 23% x 15% x 1 1 Row  
 Tank Sizes: Inlet 2% x 16%  
 Outlet 2% x 16%  
 Hose Fittings: Inlet 1% Dia. Top Right  
 Outlet 1% Dia. Bot. Left  
 Type Mount: C Oil Cooler 11%  
 Construction: Plastic tanks/Aluminum core  
 Comments: HRL Connection on RH Tank



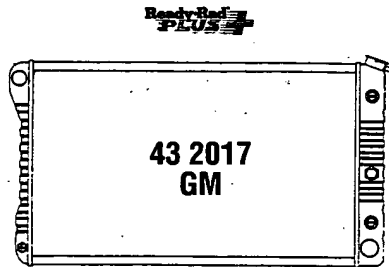
**43 2015  
JEEP**

Core Size: 18 x 20 x 1% 2 Row  
 Tank Sizes: Inlet 2% x 20  
 Outlet 2% x 20  
 Hose Fittings: Inlet 1% Dia. Top Right  
 Outlet 1% Dia. Bot. Left  
 Type Mount: FM Oil Cooler 12%  
 Construction: Brass tanks/Copper-Brass core



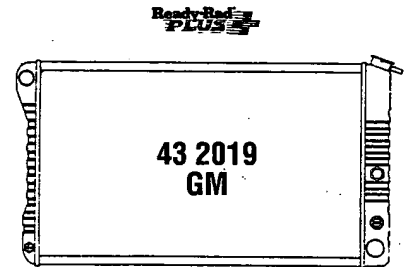
**43 2016  
GM**

Core Size: 23% x 15% x 1% 3 Row  
 Tank Sizes: Inlet 2% x 16%  
 Outlet 2% x 16%  
 Hose Fittings: Inlet 1% Dia. Top Left  
 Outlet 1% Dia. Bot. Right  
 Type Mount: C Oil Cooler 11%  
 Construction: Brass tanks/Copper-Brass core  
 Comments: Sensor Fitting on LH Tank



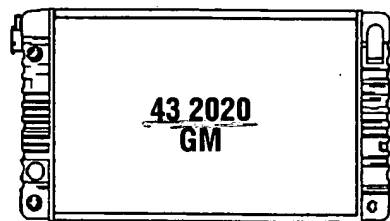
**43 2017  
GM**

Core Size: 28% x 17 x 1 1 Row  
 Tank Sizes: Inlet 2% x 18%  
 Outlet 2% x 18%  
 Hose Fittings: Inlet 1% Dia. Top Left  
 Outlet 1% Dia. Bot. Right  
 Type Mount: C Oil Cooler 11%  
 4 Plate  
 Construction: Plastic tanks/Aluminum core  
 Comments: HRL & CLI w/Plugs on RH Tank



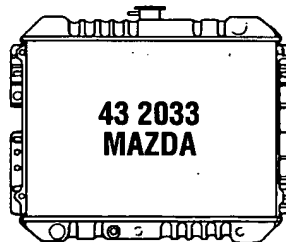
**43 2019  
GM**

Core Size: 30% x 17 x 1 1 Row  
 Tank Sizes: Inlet 2% x 18%  
 Outlet 2% x 18%  
 Hose Fittings: Inlet 1% Dia. Top Left  
 Outlet 1% Dia. Bot. Right  
 Type Mount: C Oil Cooler 11%  
 4 Plate  
 Construction: Plastic tanks/Aluminum core  
 Comments: HRL & CLI w/Plugs on RH Tank



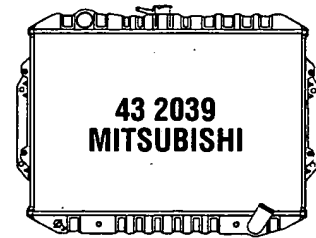
**43 2020  
GM**

Core Size: 23% x 15% x 1% 3 Row  
 Tank Sizes: Inlet 2% x 16%  
 Outlet 2% x 16%  
 Hose Fittings: Inlet 1% Dia. Top Left  
 Outlet 1% Dia. Bot. Right  
 Type Mount: C Oil Cooler 11%  
 Construction: Brass tanks/Copper-Brass core



**43 2033  
MAZDA**

Core Size: 14% x 22% x % 1 Row  
 Tank Sizes: Inlet 1% x 22%  
 Outlet 1% x 22%  
 Hose Fittings: Inlet 1% Dia. Top Right  
 Outlet 1% Dia. Bot. Left  
 Type Mount: FM Oil Cooler None  
 Construction: Brass tanks/Copper-Brass core  
 Comments: Sensor Fitting on Bottom Tank

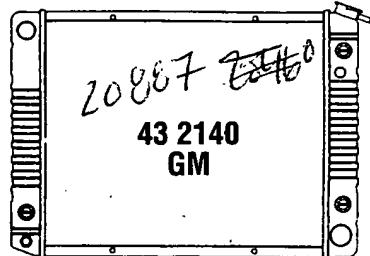


**43 2039  
MITSUBISHI**

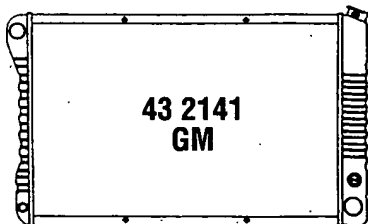
Core Size: 16% x 23% x 2 3 Row  
 Tank Sizes: Inlet 2% x 23%  
 Outlet 2% x 23%  
 Hose Fittings: Inlet 1% Dia. Top Left  
 Outlet 1% Dia. Bot. Right  
 Type Mount: FM Oil Cooler 11%  
 Construction: Brass tanks/Copper-Brass core

# RADIATOR ILLUSTRATIONS & SPECIFICATIONS

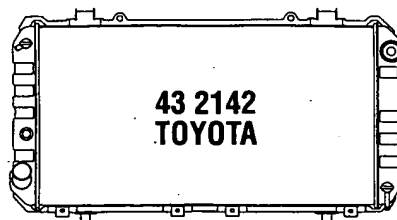
ILLUSTRATIONS  
RADIATOR



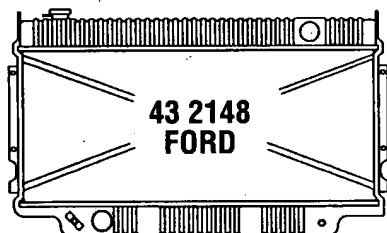
Core Size: 26 $\frac{1}{2}$  x 17 x 1 $\frac{1}{2}$  3 Row  
Tank Sizes: Inlet 2 $\frac{1}{2}$  x 18 $\frac{1}{2}$   
Outlet 2 $\frac{1}{2}$  x 18 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Left  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Right  
Type Mount: C 2 Trans Oil Cooler 11 $\frac{1}{2}$ "  
Construction: Brass tanks/Copper-Brass core



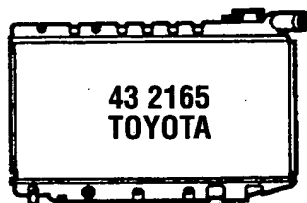
Core Size: 26 $\frac{1}{2}$  x 17 x 1 2 Row  
Tank Sizes: Inlet 2 $\frac{1}{2}$  x 18 $\frac{1}{2}$   
Outlet 2 $\frac{1}{2}$  x 18 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Left  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Right  
Type Mount: C Oil Cooler 11 $\frac{1}{2}$ "  
Construction: Brass tanks/Copper-Brass core



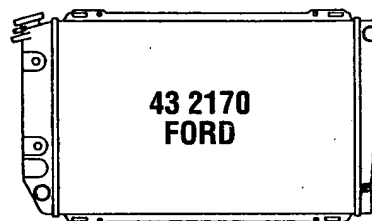
Core Size: 22 $\frac{1}{2}$  x 12 $\frac{1}{2}$  x 1 $\frac{1}{2}$  2 Row  
Tank Sizes: Inlet 2 x 13  
Outlet 2 x 13  
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Right  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Left  
Type Mount: P Oil Cooler None  
Construction: Brass tanks/Copper-Brass core  
Comments: Sensor Fitting on LH Tank



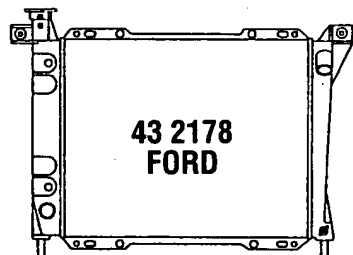
Core Size: 15 $\frac{1}{2}$  x 37 x 2 $\frac{1}{4}$  4 Row  
Tank Sizes: Inlet 3 $\frac{1}{2}$  x 37 $\frac{1}{2}$   
Outlet 3 $\frac{1}{2}$  x 37 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Right  
Outlet 2 Dia. Bot. Left  
Type Mount: FM Oil Cooler 12"  
Construction: Plastic tanks/Aluminum core



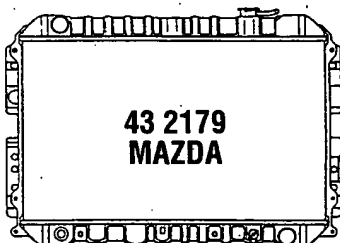
Core Size: 12 $\frac{3}{16}$  x 26 $\frac{1}{4}$  x  $\frac{1}{2}$  1 Row  
Tank Sizes: Inlet 1 $\frac{1}{4}$  x 27 $\frac{1}{4}$   
Outlet 1 $\frac{1}{4}$  x 27 $\frac{1}{4}$   
Hose Fittings: Inlet 1 $\frac{1}{4}$  Dia. Top Right  
Outlet 1 $\frac{1}{4}$  Dia. Bot. Left  
Type Mount: P Oil Cooler None  
Construction: Plastic tanks/Copper-Brass core



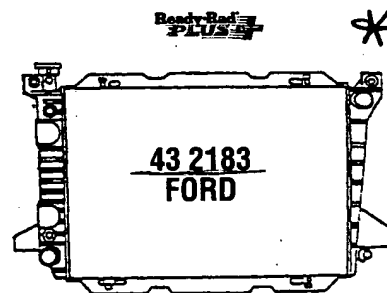
Core Size: 27 $\frac{1}{2}$  x 18 $\frac{1}{2}$  x 1 1 Row  
Tank Sizes: Inlet 1 $\frac{1}{4}$  x 18 $\frac{1}{2}$   
Outlet 3 x 18 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Right  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Left  
Type Mount: C Oil Cooler 8"  
Construction: Plastic tanks/Aluminum core



Core Size: 22 $\frac{1}{2}$  x 18 $\frac{1}{2}$  x 2 $\frac{1}{4}$  2 Row  
Tank Sizes: Inlet 3 x 18 $\frac{1}{2}$   
Outlet 3 x 18 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Right  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Left  
Type Mount: C Oil Cooler 12"  
Construction: Plastic tanks/Aluminum core



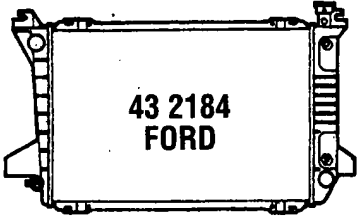
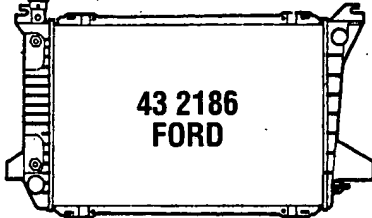
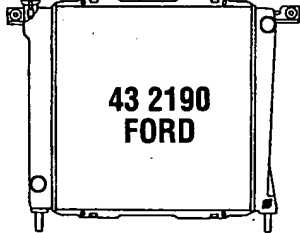
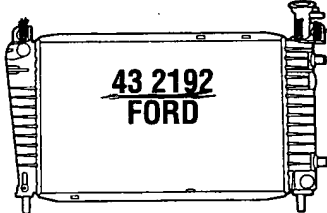
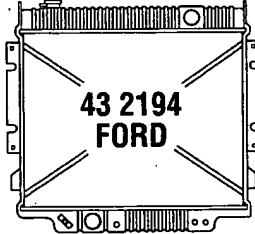
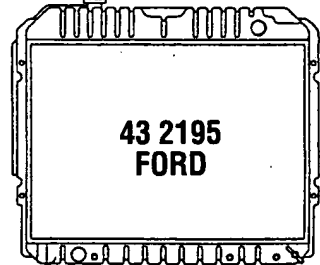
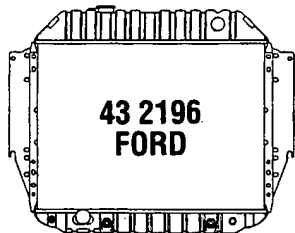
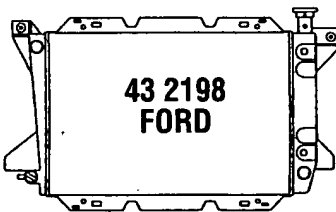
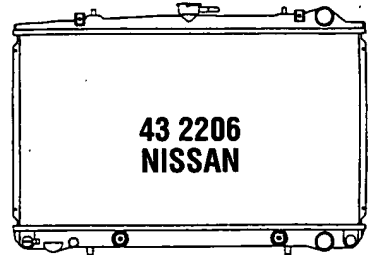
Core Size: 14 $\frac{1}{2}$  x 23 $\frac{1}{2}$  x 1 $\frac{1}{4}$  2 Row  
Tank Sizes: Inlet 1 $\frac{1}{2}$  x 23 $\frac{1}{2}$   
Outlet 1 $\frac{1}{2}$  x 23 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Left  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Right  
Type Mount: FM Oil Cooler 10"  
Construction: Brass tanks/Copper-Brass core  
Comments: Sensor Fitting on Bottom Tank



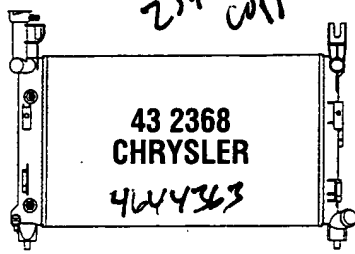
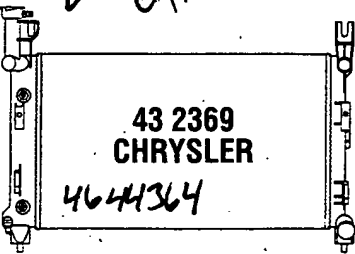
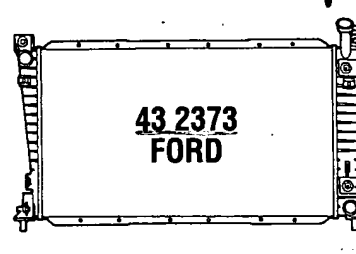
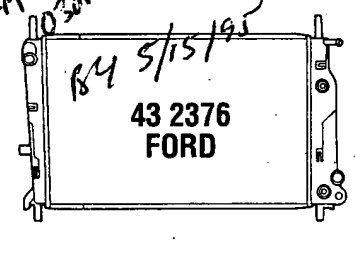
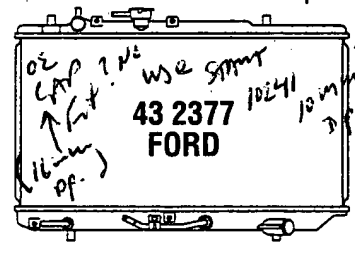
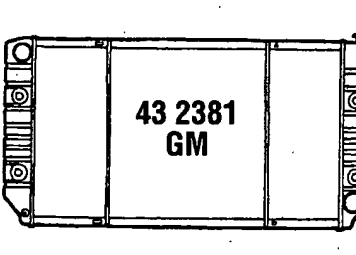
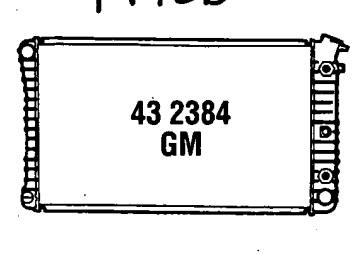
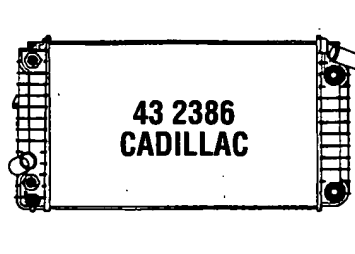
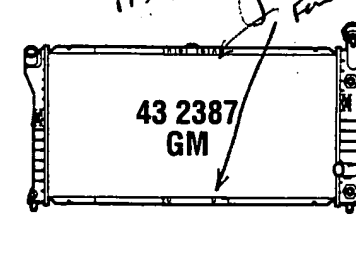
Core Size: 27 $\frac{1}{2}$  x 18 $\frac{1}{2}$  x 2 2 Row  
Tank Sizes: Inlet 3 x 18 $\frac{1}{2}$   
Outlet 3 x 18 $\frac{1}{2}$   
Hose Fittings: Inlet 1 $\frac{1}{2}$  Dia. Top Right  
Outlet 1 $\frac{1}{2}$  Dia. Bot. Left  
Type Mount: FM Oil Cooler 12"  
Construction: Plastic tanks/Aluminum core

4 row model available  
see **HEATBUSTER** model 43 6009

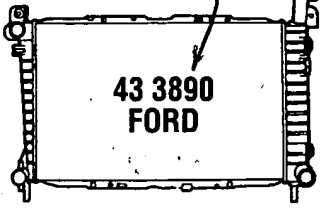
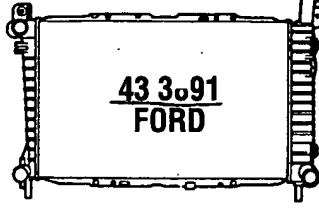
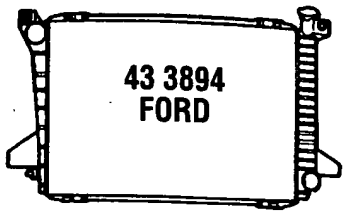
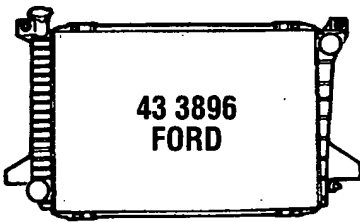
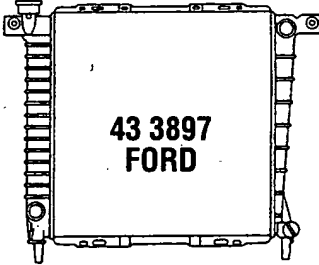
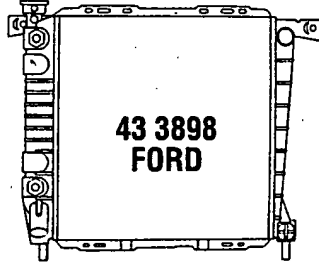
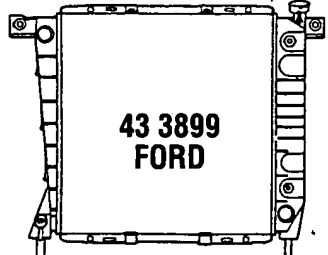
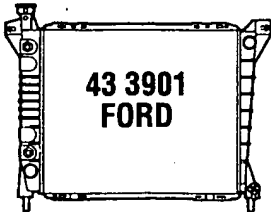

## RADIATOR ILLUSTRATIONS & SPECIFICATIONS

 <p style="text-align: center;"><b>43 2184 FORD</b></p> <p>Core Size: 27<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math>      1 Row          Tank Sizes:    Inlet 1<math>\frac{1}{4}</math> x 18<math>\frac{1}{2}</math>                               Outlet 3 x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Left                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Right          Type Mount: C                      Oil Cooler 12"          Construction: Plastic tanks/Aluminum core</p>	 <p style="text-align: center;"><b>43 2186 FORD</b></p> <p>Core Size: 27<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math>      1 Row          Tank Sizes:    Inlet 1<math>\frac{1}{4}</math> x 18<math>\frac{1}{2}</math>                               Outlet 3 x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Left          Type Mount: C                      Oil Cooler 12"          Construction: Plastic tanks/Aluminum core</p>	 <p style="text-align: center;"><b>43 2190 FORD</b></p> <p>Core Size: 18 x 18<math>\frac{1}{2}</math> x 1      1 Row          Tank Sizes:    Inlet 1<math>\frac{1}{4}</math> x 18<math>\frac{1}{2}</math>                               Outlet 1<math>\frac{1}{4}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Left          Type Mount: C                      Oil Cooler None          Construction: Plastic tanks/Aluminum core</p>
 <p style="text-align: center;"><b>43 2192 FORD</b></p> <p>Core Size: 24 x 14<math>\frac{1}{4}</math> x 1      1 Row          Tank Sizes:    Inlet 1<math>\frac{1}{4}</math> x 15                               Outlet 3 x 15          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Left                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Right          Type Mount: Pin                      Oil Cooler 10"          Construction: Plastic tanks/Aluminum core  <i>See kit for 3590 applic.</i></p>	 <p style="text-align: center;"><b>43 2194 FORD</b></p> <p>Core Size: 23<math>\frac{1}{2}</math> x 30<math>\frac{1}{2}</math> x 2<math>\frac{1}{4}</math>      4 Row          Tank Sizes:    Inlet 3<math>\frac{1}{2}</math> x 31                               Outlet 3<math>\frac{1}{2}</math> x 31          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 2 Dia. Bot. Left          Type Mount: FM                      Oil Cooler 12"          Construction: Brass tanks/Copper-Brass core</p>	 <p style="text-align: center;"><b>43 2195 FORD</b></p> <p>Core Size: 21 x 30<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math>      3 Row          Tank Sizes:    Inlet 3 x 30<math>\frac{1}{2}</math>                               Outlet 3 x 30<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Left          Type Mount: FM                      Oil Cooler 12"          Construction: Brass tanks/Copper-Brass core</p>
 <p style="text-align: center;"><b>43 2196 FORD</b></p> <p>Core Size: 19<math>\frac{1}{4}</math> x 26<math>\frac{1}{4}</math> x 2      3 Row          Tank Sizes:    Inlet 3 x 26<math>\frac{1}{4}</math>                               Outlet 3 x 26<math>\frac{1}{4}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Left          Type Mount: FM                      Oil Cooler 12"          Construction: Brass tanks/Copper-Brass core          Comments: w/TOC Adapt., Sensor Fit.                               w/Plug Bot.</p>	 <p style="text-align: center;"><b>43 2198 FORD</b></p> <p>Core Size: 27<math>\frac{1}{2}</math> x 18 x 2<math>\frac{1}{4}</math>      2 Row          Tank Sizes:    Inlet 3 x 18<math>\frac{1}{2}</math>                               Outlet 3 x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Left                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Right          Type Mount: FR                      Oil Cooler 12"          Construction: Plastic tanks/Aluminum core</p>	 <p style="text-align: center;"><b>43 2206 NISSAN</b></p> <p>Core Size: 14<math>\frac{1}{4}</math> x 25<math>\frac{1}{4}</math> x <math>\frac{3}{4}</math>      1 Row          Tank Sizes:    Inlet 1<math>\frac{1}{4}</math> x 26<math>\frac{1}{4}</math>                               Outlet 1<math>\frac{1}{4}</math> x 26<math>\frac{1}{4}</math>          Hose Fittings: Inlet 1<math>\frac{1}{4}</math> Dia. Top Right                               Outlet 1<math>\frac{1}{4}</math> Dia. Bot. Left          Type Mount: Pin                      Oil Cooler 11<math>\frac{1}{2}</math>"          Construction: Brass tanks/Copper-Brass core</p>

# RADIATOR ILLUSTRATIONS & SPECIFICATIONS

<p><i>2370 call for unit</i></p>  <p><b>43 2368 CHRYSLER</b> <i>4644363</i></p> <p>Core Size: 25 1/4 x 15 1/2 x 1 1/8      2 Row          Tank Sizes: Inlet 2 1/2 x 15%                            Outlet 2 1/2 x 15%          Hose Fittings: Inlet 1 1/4 Dia. Top Right                            Outlet 1 1/4 Dia. Bot. Right          Type Mount: CF/P      Oil Cooler 10"          Construction: Plastic tanks/Aluminum Core</p>	<p><i>2376 call for unit</i></p>  <p><b>43 2369 CHRYSLER</b> <i>4644364</i></p> <p>Core Size: 25 1/4 x 15 1/2 x 1 1/8      2 Row          Tank Sizes: Inlet 2 1/2 x 15%                            Outlet 2 1/2 x 15%          Hose Fittings: Inlet 1 1/4 Top Right                            Outlet 1 1/4 Bot. Right          Type Mount: CF/P      Oil Cooler 10"          Construction: Plastic tanks/Aluminum Core</p>	<p><i>*</i></p>  <p><b>43 2373 FORD</b></p> <p>Core Size: 30 x 17 x 1      1 Row          Tank Sizes: Inlet 2 x 17%                            Outlet 2 x 17%          Hose Fittings: Inlet 1 1/4 Dia. Top Left                            Outlet 1 1/4 Dia. Bot. Right          Type Mount: FM/P      Oil Cooler 12"          Construction: Plastic tanks/Aluminum core</p>
<p><i>need to check XS 2277A031FB 1030AB 84 5/15/95</i></p>  <p><b>43 2376 FORD</b></p> <p>Core Size: 24 x 15 x 1      1 Row          Tank Sizes: Inlet 2 x 16                            Outlet 3 x 16          Hose Fittings: Inlet 1 1/4 Dia. Top Left                            Outlet 1 1/4 Dia. Bot. Right          Type Mount: P      Oil Cooler 12"          Construction: Plastic tanks/Aluminum core</p>	<p><b>NEW AVAILABLE</b></p>  <p><b>43 2377 FORD</b></p> <p>Core Size: 13 1/2 x 25 x 1 1/8      1 Row          Tank Sizes: Inlet 1 1/8 x 26%                            Outlet 2 x 26%          Hose Fittings: Inlet 1 1/4 Dia. Top Left                            Outlet 1 1/4 Dia. Bot. Right          Type Mount: P      Oil Cooler 10 1/2"          Construction: Plastic tanks/Aluminum Core</p>	<p><b>NEW check for availability</b></p>  <p><b>43 2381 GM</b></p> <p>Core Size: 34 x 18 1/2 x 2 1/4      4 Row          Tank Sizes: Inlet 3 1/4 x 20%                            Outlet 3 1/4 x 20%          Hose Fittings: Inlet 1 1/8 Dia. Top Left                            Outlet 1 1/8 Dia. Bot. Right          Type Mount: C      Eng/Trans Cooler 8 1/2"          Construction: Brass tanks/Copper-Brass core</p>
<p><i>need to check P: TCD?</i></p>  <p><b>43 2384 GM</b></p> <p>Core Size: 30 1/2 x 17 1/2 x 1 1/8      1 Row          Tank Sizes: Inlet 2 1/2 x 18%                            Outlet 2 1/2 x 18%          Hose Fittings: Inlet 1 1/8 Dia. Top Left                            Outlet 1 1/8 Dia. Bot. Right          Type Mount: C      Oil Cooler 11 1/2"          Construction: Plastic tanks/Aluminum core</p>	<p><b>NEW check for availability</b></p>  <p><b>43 2386 CADILLAC</b></p> <p>Core Size: 30 1/2 x 15 x 1 1/8      1 Row          Tank Sizes: Inlet 2 1/2 x 16%                            Outlet 2 1/2 x 16%          Hose Fittings: Inlet 1 1/8 Dia. Top Right                            Outlet 1 1/8 Dia. Bot. Left          Type Mount: C      Eng/Trans Cooler 11 1/2"          Construction: Plastic tanks/Aluminum core</p>	<p><i>Ho only need fan ch</i></p>  <p><b>43 2387 GM</b></p> <p>Core Size: 30 1/2 x 15 x 1 1/8      1 Row          Tank Sizes: Inlet 2 1/2 x 16%                            Outlet 2 1/2 x 16%          Hose Fittings: Inlet 1 1/8 Dia. Top Left                            Outlet 1 1/8 Dia. Bot. Right          Type Mount: C/P      Oil Cooler 11 1/2"          Construction: Plastic tanks/Aluminum core          Comments: Sensor Fitting on RH Tank</p>

## RADIATOR ILLUSTRATIONS & SPECIFICATIONS

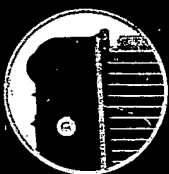
 <p><b>43 3890 FORD</b></p> <p>Core Size: 24<math>\frac{3}{16}</math> x 14<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 2 Row          Tank Sizes: Inlet 2<math>\frac{1}{2}</math> x 15<math>\frac{1}{4}</math>          Outlet 2<math>\frac{1}{2}</math> x 15<math>\frac{1}{4}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: C Oil Cooler 10"          Construction: Brass tanks/Copper-Brass core          CAN USE <b>Ready-Rad PLUS</b>          MODEL 43 2192</p>	 <p><b>43 3091 FORD</b></p> <p>Core Size: 24<math>\frac{3}{16}</math> x 14<math>\frac{1}{2}</math> x 2 2 Row          Tank Sizes: Inlet 2<math>\frac{1}{2}</math> x 15<math>\frac{1}{4}</math>          Outlet 2<math>\frac{1}{2}</math> x 15<math>\frac{1}{4}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: C Oil Cooler 10"          Construction: Plastic tanks/Aluminum core</p>	 <p><b>43 3894 FORD</b></p> <p>Core Size: 27<math>\frac{1}{16}</math> x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 2 Row          Tank Sizes: Inlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Outlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: FR Oil Cooler None          Construction: Brass tanks/Copper-Brass core          Comments: Can Use 43 2184          CAN USE <b>Ready-Rad PLUS</b>          MODEL 43 2192</p>
 <p><b>43 3896 FORD</b></p> <p>Core Size: 27<math>\frac{1}{16}</math> x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 2 Row          Tank Sizes: Inlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Outlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: FR Oil Cooler None          Construction: Brass tanks/Copper-Brass core</p>	 <p><b>43 3897 FORD</b></p> <p>Core Size: 18 x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 1 Row          Tank Sizes: Inlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Outlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Right          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Left          Type Mount: C Oil Cooler None          Construction: Plastic tanks/Aluminum core</p>	 <p><b>43 3898 FORD</b></p> <p>Core Size: 18 x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 1 Row          Tank Sizes: Inlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Outlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Right          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Left          Type Mount: C Oil Cooler 12"          Construction: Plastic tanks/Aluminum core          Comments: w/TOC Adapters</p>
 <p><b>43 3899 FORD</b></p> <p>Core Size: 18 x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 2 Row          Tank Sizes: Inlet 1<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Outlet 3 x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: C Oil Cooler 12"          Construction: Brass tanks/Copper-Brass core</p>	 <p><b>43 3901 FORD</b></p> <p>Core Size: 22<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math> x 1<math>\frac{1}{4}</math> 1 Row          Tank Sizes: Inlet 2 x 18<math>\frac{1}{2}</math>          Outlet 3<math>\frac{1}{2}</math> x 18<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Right          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Left          Type Mount: C Oil Cooler 12"          Construction: Plastic tanks/Aluminum core          Comments: w/TOC Adapters</p>	 <p><b>43 3907 GM</b></p> <p>Core Size: 23<math>\frac{1}{2}</math> x 15<math>\frac{1}{4}</math> x 1 1 Row          Tank Sizes: Inlet 2<math>\frac{1}{2}</math> x 16<math>\frac{1}{2}</math>          Outlet 2<math>\frac{1}{2}</math> x 16<math>\frac{1}{2}</math>          Hose Fittings: Inlet 1<math>\frac{1}{2}</math> Dia. Top Left          Outlet 1<math>\frac{1}{2}</math> Dia. Bot. Right          Type Mount: C Oil Cooler 11<math>\frac{1}{2}</math>"          Construction: Plastic Tanks/Aluminum Core          Comments: Sensor Fit. w/Plug,          Push-in Adapt.</p>

2001

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